

CLAIMS

1 (Currently Amended). A digital projector comprising:
an input receiving digital data defining image frames; and
an optical modulator ~~adapted to generate~~ generating a series of images corresponding to said digital data, said images being separated by black intervals, said optical modulator generating said black intervals with a duration selected to induce a ~~stroboscopic~~ blink effect in the eye of a viewer, ~~said stroboscopic effect being selected~~ to improve relative motion perception.

2 (Original). The projector of claim 1 wherein said series of images includes a sequence of frames, said optical modulator generating said sequence of frames.

3 (Currently Amended). The projector of claim 2 wherein said optical modulator ~~is adapted to generate~~ generates at least one black interval for each frame.

4 (Original). The projector of claim 1 wherein said black intervals have a duration in the range of 1-20msec.

5 (Currently Amended). The projector of claim 1 wherein said optical modulator ~~is adapted to produce~~ produces images defined by frames characterized by a frame duration, wherein said blink interval is about 50% of said frame duration.

6 (Currently Amended). A digital projector ~~adapted to generate~~ projecting moving images from a stream of data arranged in digital frames, said projector comprising:

an input ~~adapted to receive~~ receiving said stream of data;

a timer ~~adapted to generate~~ generating blink signals in synchronism with said digital frames, said blink signals ~~being adapted to define~~ defining a black interval ~~adapted~~ having a duration selected to induce a stroboscopic blink effect to improve relative motion perception; and

an optical image generator ~~adapted to generate~~ that generates a sequence of optical images corresponding to said sequence of digital frames, said optical images being separated by said black intervals.

7 (Currently Amended). The projector of claim 6 wherein said optical image generator does not ~~emit~~ project any significant light during said black intervals.

8 (Original). The projector of claim 6 wherein said optical images are generated during frames having frame durations, and wherein said black intervals at least 50% of said frame durations.

9 (Original). The projector of claim 6 further comprising a light source generating light and an optical modulator receiving said light and modulating said light in accordance with digital frames to form images.

10 (Currently Amended). The projector of claim 9 further comprising a mixer ~~adapted to generate~~ generating control signals for said optical modulator in accordance with said digital frames and said blink signals.

11 (Currently Amended). The projector of claim 10 wherein said mixer is ~~adapted to generate~~ generates modified frames, each frame including a black interval and data from one of said digital frames.

12 (Currently Amended). A method of generating moving images from data comprising :

generating blink signals defining black intervals having a duration selected to induce a ~~stroboscopic~~ blink effect in the eyes of a viewer to improve relative motion perception;

converting said data into images; and

projecting said images on a screen with said images being separated by said black intervals.

13 (Currently Amended). The method of claim 12 wherein no substantial light is projected during said black intervals.

14 (Previously Amended). The method of claim 12 further comprising defining frames having frame durations that define the rate at which said images are projected.

15 (Previously Amended). The method of claim 14 wherein said black intervals are at least 50% of said frame durations.

16 (Previously Amended). The method of claim 12 wherein said data is partitioned into digital frames, the data of each frame defining a corresponding image, and wherein one black interval is associated with each digital frame.

17 (Previously Presented). The method of claim 12 wherein said blink signals are selected to imitate the blinking of the viewer's eye.